California Department of Health Services—12/31/99

PERTUSSIS Case and Outbreak 'Quicksheet'

To be used as a checklist for determining pertussis cases and assisting in the completion of the Pertussis Report, form DHS 8258

| Infectious agent: Borde | etella pertussis (a bacterium) | | | | | |
|--|--|--|--|--|--|--|
| Mode of transmission: | a) Person to person via direct contact or large respiratory droplets or b) Airborne via | | | | | |
| | aerosolized droplet nuclei (tiny droplets suspended in the air) | | | | | |
| Incubation period: Cor Period of communicab | weeks before onset of cough spasms or paroxyms) to 3 weeks after onset of cough spasms. | | | | | |
| | ☐ With appropriate antibiotics - Until day five of the antimicrobial course. | | | | | |
| CDC CASE D | DEFINITION AND CLASSIFICATION (for purposes of public health reporting) | | | | | |
| | for isolated case: A cough illness lasting \square at least two weeks with one or more of the | | | | | |
| | of coughing □inspiratory "whoop", and/or □post-tussive vomiting, all without other apparent | | | | | |
| | when epi-linked to another case(s), at least one of which is culture positive for pertussis: A | | | | | |
| | at least 2 weeks, without other apparent cause. | | | | | |
| Case Classification: | □Confirmed $- □$ cough illness and culture positive; or $□$ meets case definition for isolated case and PCR positive; or $□$ cough illness for at least 2 weeks and direct contact with culture or PCR positive case. A positive serology test result does not make a case | | | | | |
| | confirmed for reporting purposes. □Probable - meets the □clinical case definition for isolated case and is neither laboratory confirmed nor epidemiologically linked to a laboratory confirmed case. | | | | | |
| | Both confirmed and probable cases are officially reported. | | | | | |
| | CLINICAL FEATURES | | | | | |
| Catarrhal (or Prodron | nal) stage: | | | | | |
| Onset of cold-like sympt | toms (coryza, sneezing, mild fever, occasional cough) | | | | | |
| Lasts approximately 1-2 | weeks with cough gradually becoming more severe | | | | | |
| Paroxysmal stage: | | | | | | |
| | having bursts (paroxysms) of numerous, rapid coughs, sometimes followed by high-pitched "cyanosis, apnea, post-tussive vomiting/gagging, and/or sticky mucus production | | | | | |
| | but may last up to 10 weeks | | | | | |
| | al stage: ☐ Infants (<6 months): cough, choking, cyanosis, without "whoop" or paroxysms ☐ Adults/teenagers/immunized children: milder illness, hacking cough, usually with | | | | | |
| | sticky mucus production and occasional paroxysms. Sometimes post-tussive | | | | | |
| | vomiting and gagging without "whoop." Mimics bronchitis. | | | | | |
| Convalescent Stage: | | | | | | |
| | cough becoming less frequent and less paroxysmal | | | | | |
| | ears after 2-3 weeks, but some will have temporary recurrence of cough paroxysms with ctions for next several months. | | | | | |

RECOMMENDED TREATMENT AND CHEMOPROPHYLAXIS

| Drug | Children | Adults | | | |
|---|--|--|--|--|--|
| ☐ Erythromycin | ☐ 40-59 mg/kg/day po divided into | ☐ 500 mg po q.i.d. for treatment; | | | |
| | 4 doses /day for 14 days (max of 2 gms/day) | 250 mg/day q.i.d for 14 days for | | | |
| If person can not tolerate erythromycin | | prophylaxis | | | |
| or compliance is questionable: | | | | | |
| ☐ Trimethoprim/ | $\square \ge 2 \text{ mos. old}$: 8 mg TMP/40 mg SMX per | ☐ 2 regular strength or 1 double | | | |
| Sulfamethoxazole | kg/day po divided into 2 doses/day for 14 | strength tablet b.i.d. For 14 days | | | |
| OR | days. | | | | |
| ☐ Clarithromycin | | ☐ 500 mg q.i.d. for 14 days | | | |
| OR | $\square >=6$ mos. old: 15 mg/kg/day divided into 2 | | | | |
| ☐ Oxytetracycline | doses/day for 14 days | ☐ 500 mg q.i.d. for 14 days | | | |
| OR | □ >=9 years old: 25 mg/kg/day divided into | | | | |
| ☐ Azithromycin | 4 doses/day for 14 days | \square 500 mg (in one dose) on 1 st day, | | | |
| | $\square \ge 6 \text{ mos. old}$: 10 mg/kg/day for 5 days | 250 mg once daily on 2 nd -5 th days | | | |

PERTUSSIS CASE INVESTIGATION

| | | tigation Pr | | | | | | | | | | | | |
|--------------------|---|--|--|---|--|--|---|---|--|--|--|---|---|------------------------------|
| | - | | tion, contact the | | | | - | | | | | | | |
| | | | geal (NP) specin | | | | | | | | | | erapy b | egins. |
| | | | tions for obtaini | - | | - | _ | | _ | | _ | | | |
| | | | ld be treated wit | | | | | | niid care | , or othe | r group | setting i | intil the | first 5 |
| | | • | recommended an | | | | | | | | | | | |
| | | | nended treatmei | | | | | | otus sott | ina | | | | |
| | | | view to confirm or to others in he | | | | | | | | ot noss | iblo miele | I I ao ti | ho |
| | | - | ow to help deterr | | | | • | | _ | | - | | | ne |
| | | | ertussis Report fo | | | | | | | | | | | i c |
| | | | ne line depicts th | | | | | | | | | | | J. |
| Exposure & | | mowing th | Onset & Commun | | ai cours | c or perio | Parox | | uscrui III | i tiic iiiv | csugano | _ | lescence | |
| Incubation | Period 5-2 | 1 days | Catarrhal Stage 1- | 2 weeks | | Parc | oxysmal S | tage 1-6 we | eks | | Conva | alescent S | tage 2-3 | weeks |
| weeks: -3 | -2 | -1 | 0 + 1 (onset) | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Maximum incubation | Average *start communicability* exposure cold symptoms: | | | | paroxysmal cough, vomiting, cyanosis, (and apnea if less than 6 months old) | | | | | | | | | |
| period 21 days | | & incubation | rhinorrhea, conjunc lacrimation, sneezir | , | communi | unicability ends communicability ends weeks after onset of | | | | coughing | | | | |
| (rarely over | | period 7-10 days | low-grade fever, ma anorexia | alaise, | after 5 da antibiotoc | ays of appro | priate | paroxysm | al cough if | | | | | |
| 14 days) | | 7-10 days | anorexia | | a. n. o. o. o | | | antibiotics | are given | | | | | |
| | 1. Ide | edical examentify close Close corvaccine accordin booster Inadequat and pub appropr xclude susj antibiot | examples: house mination, or room contacts and give stacts less than so should, in additing to the recommendose of DTaP under tely immunized of the gatherings for itate antibiotic, pected (symptomic treatment, ophylaxis usually | chold, fam contained property of the property | ace-to-fac ct for >= nylaxis (a ars of agontibiotic schedule dose has ontacts le- ys after to asses from | 1 hour (antibiotic e who are prophyla to Those been gives than 7 he last extracted notices that the started notices the started notices that the started notices that the started notices that the started notices the started notices the started notices that the started notices that the started notices the s | or snee (or any lo (s) as apple unimmaxis, have who have en withing years of xposure of day-care | ze in face ength of a propriate nunized of e pertuss we had for in the last f age sho or until the until the | e, sharing time if can be a ca | g eating ase coug eceived f nization of pertu ears or th scluded a receive omplete exposur | utensils, hing at the fewer that initiated sais vacced by have from school the first different from the first different from sending the first different from the first dif | ime). an 4 dos or cont cine, sho reached nools, da st 5 days | es of pe inued ould rec d age 7 y ay-care of s of an | ertussis eive a years. |
| | | | MAN immunization reverdue for dose. | | | SE CON' children | | | | | | oom. C | ive DT | aP to |
| | | Exposed chase. | ildren should be | observ | ed carefu | ılly for re | espirator | y sympto | ms for 1 | 4 days a | fter the | last con | tact wit | h the |
| | | | nmunization and to all children ar | | | | d be giv | en to clo | se contac | cts (if >= | = 2 cases | in class | sroom, g | give |
| | C | hildren wit | ic children shoul th pertussis, if the amended antibiot | eir med | ical cond | | | | | | | | | |
| | □ 5. <i>I</i> | Alert paren | ts and local phys | sicians t | o the situ | ation. | | | | | | | | |
| | | | | CO | имиліт | ΓY-WIDI | E OUTE | BREAK | CONTR | OL | | | | |
| | | Consider ch | nanging first part | | | | | | | | , 2nd, an | d 3rd do | oses at a | ages 1,2 |

- ,2
- □ 2. Notify area clinics/ERs/doctors' offices of outbreak situation and distribute information to them on case reporting and contact management (see Appendices E and F of Pertussis Case Contact Management/Outbreak Control).
- □ 3. Physicians/clinics should call due and overdue infants and children in for immunization. Consider using news media/publicity to inform the public of this need.
- □ 4. Physicians/clinics/ERs promptly isolate patients with cough or see them at the end of the day. Ask all coughing patients who are old enough to put on face masks while in the medical facility until evaluated.
- □ 5. Health care staff facing repeated exposures should consider booster dose of .25 ml DTaP.